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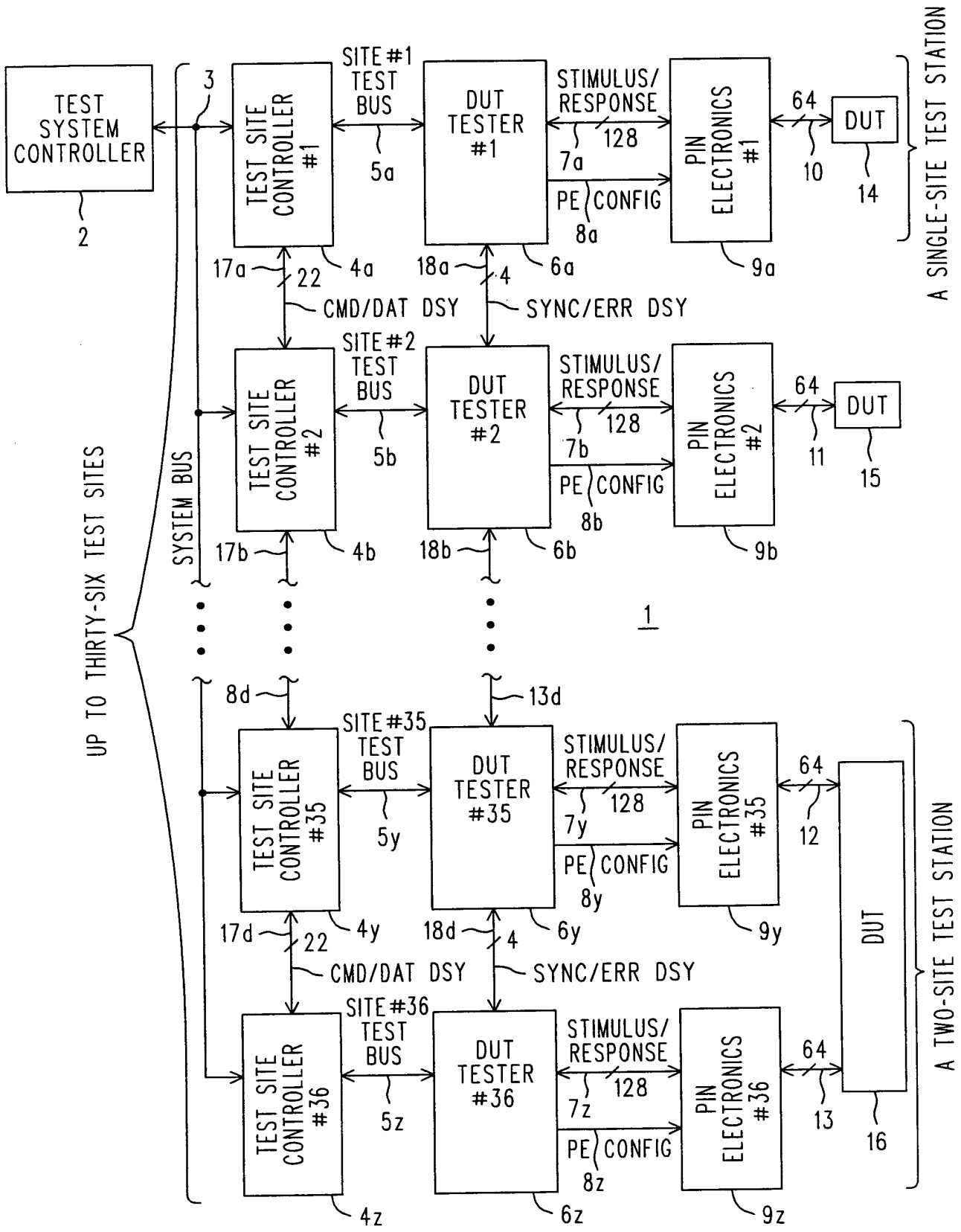

FIG. 1

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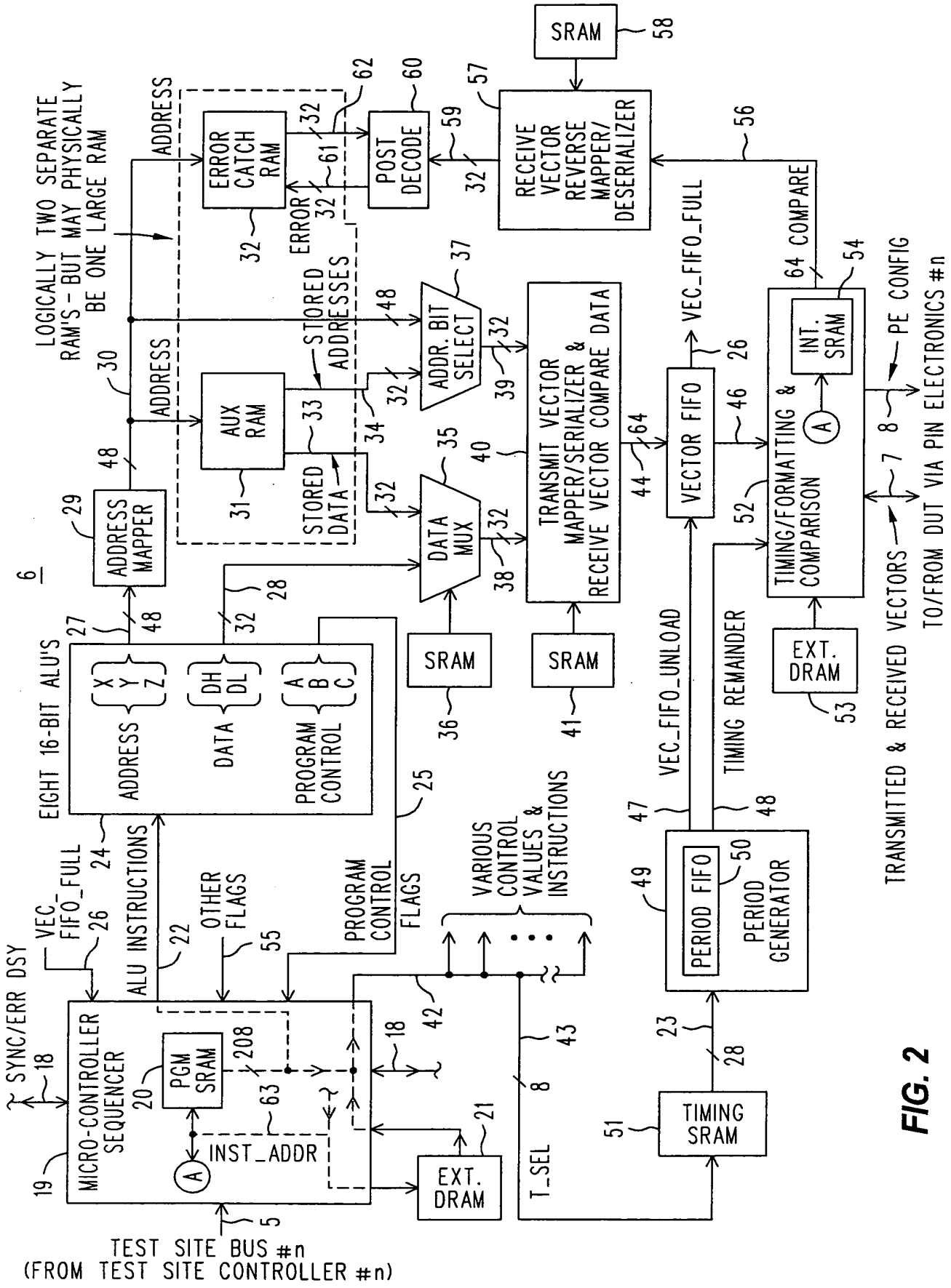

FIG. 2

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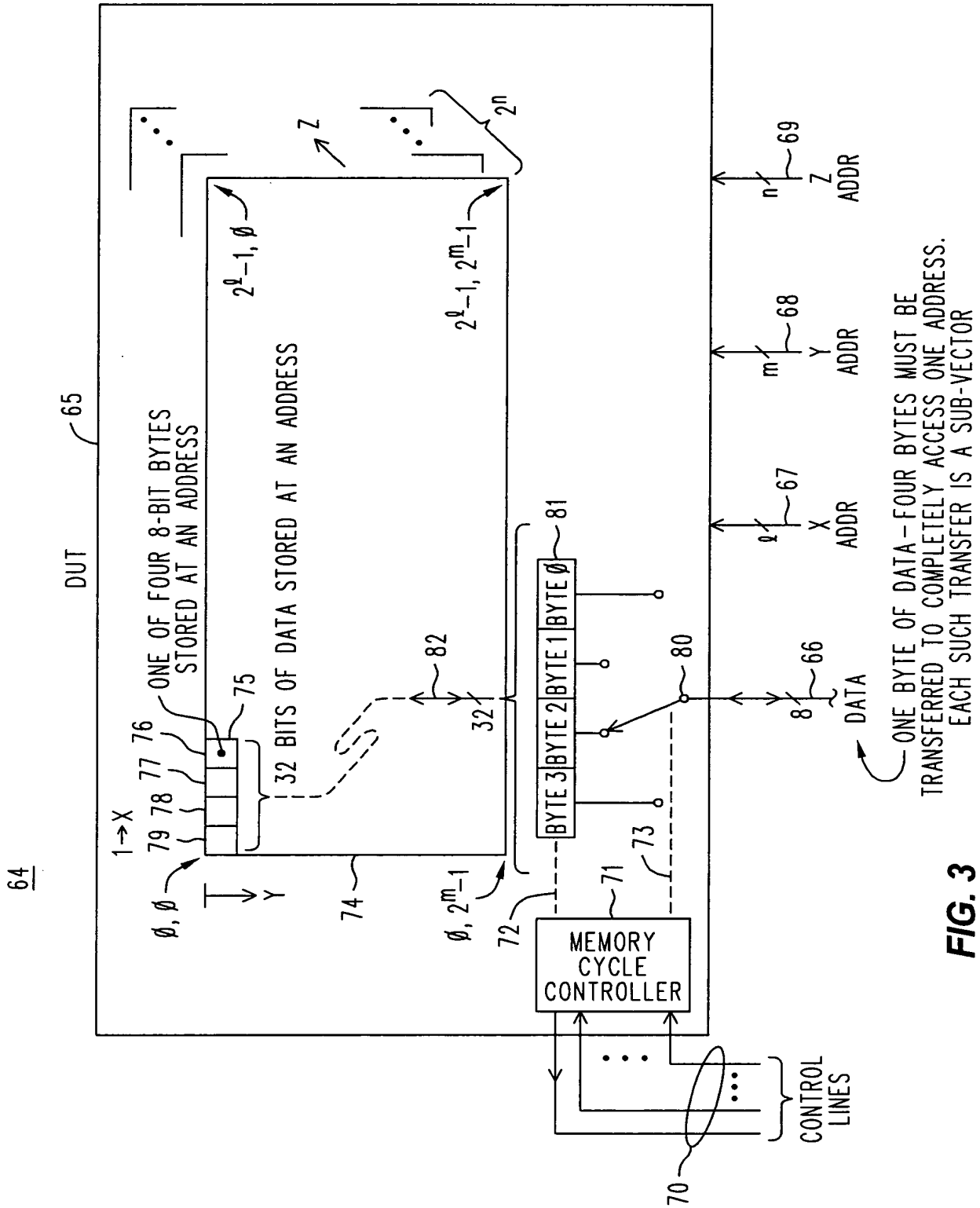

FIG. 3

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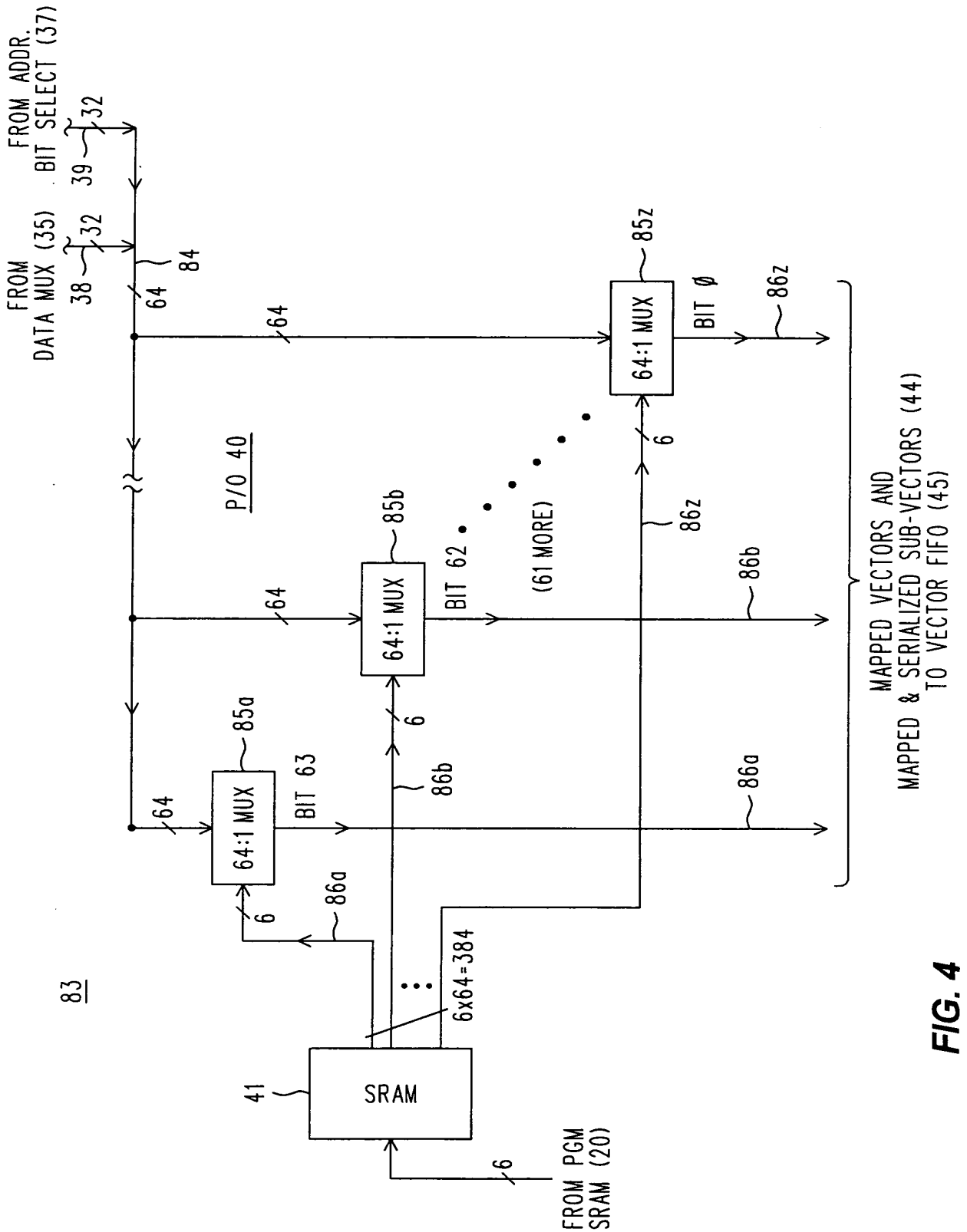

FIG. 4

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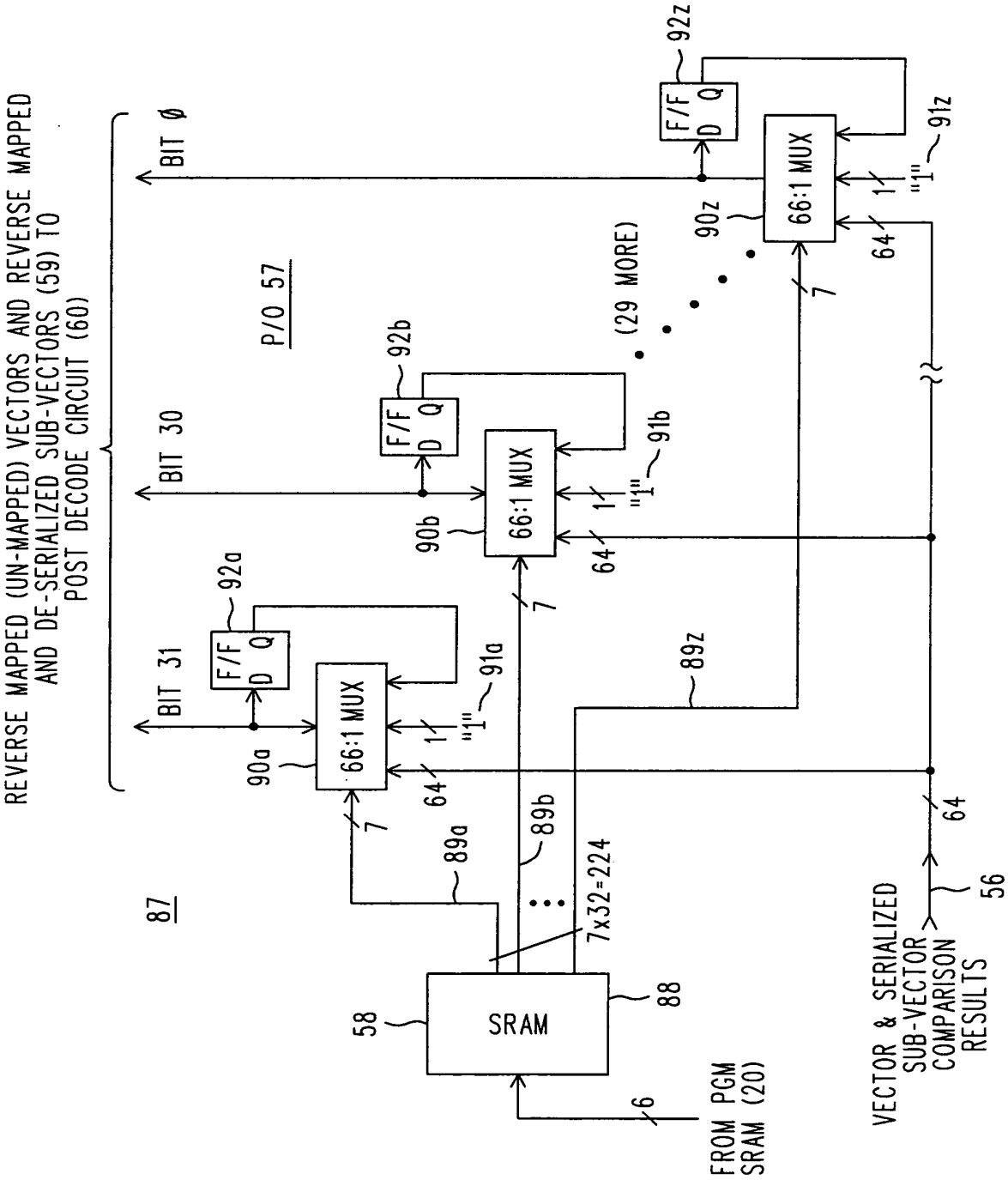

FIG. 5

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```
1  @group data {0,1,2,3,4,5,6,7}
2  @group address {32,33,34,35,36,37,38,39}
3  @group WnR {40}
4  @group data Valid {41}

5  @acam  acambits1st {7:7,6:6,5:5,4:4,3:3,2:2,1:1,0:0}
6  @acam  acambits2nd {7:15,6:14,5:13,4:12,3:11,2:10,1:9,0:8}
7  @acam  acambits3rd {7:23,6:22,5:21,4:20,3:19,2:18,1:17,0:16}
8  @acam  acambits4th {7:31,6:30,5:29,4:28,3:27,2:26,1:25,0:24}
9  @ecam  ecambits1st {7:7,6:6,5:5,4:4,3:3,2:2,1:1,0:0}
10 @ecam  ecambits2nd {15:7,14:6,13:5,12:4,11:3,10:2,9:1,8:0}
11 @ecam  ecambits3rd {23:7,22:6,21:5,20:4,19:3,18:2,17:1,16:0}
12 @ecam  ecambits4th {31:7,30:6,29:5,28:4,27:3,26:2,25:1,24:0}
```

FIG. 6A

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```
13 @pattern ACAM_ECAM_BASIC
14 {
15  ACAM_ECAM_BASIC: entry
16   t=0,x=0,y=0,z=0,dh=0,dl=0,a=0,rerr, format dataValid nr=0;
17   dh=0xffff;
18   ymax=15,xmax=15,format WnR nr=1, format address nr, format data nr;
19  LOOP_WRITE: /*now send valid data to DUT*/
20   @acam  acambits1st,format dataValid nr=1;
21   @acam  acambits2nd;
22   @acam  acambits3rd;
23   @acam  acambits4th;
24   dl++,dh--,y++,x++(ymax),jump (!xmax || !ymax) LOOP_WRITE,
      format dataValid nr=0;

25  dl=0,x=0,y=0;
26  dh=0xffff,format data cn,format WnR nr=0;
```

FIG. 6B

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```
27 LOOP_READ: /*now compare data*/
28  @ecam  ecambits1st, @acam  acambits1st, format dataValid nr=1;
29  @ecam  ecambits2nd, @acam  acambits2nd;
30  @ecam  ecambits 3rd, @acam  acambits3rd;
31  @ecam  ecambits 4th, @acam  acambits4th;
32  dl++,dh--,y++,x++(ymax),jump (!xmax || !ymax) LOOP_WRITE,
     format dataValid nr=0;

33  quit;
34 }
```

FIG. 6C

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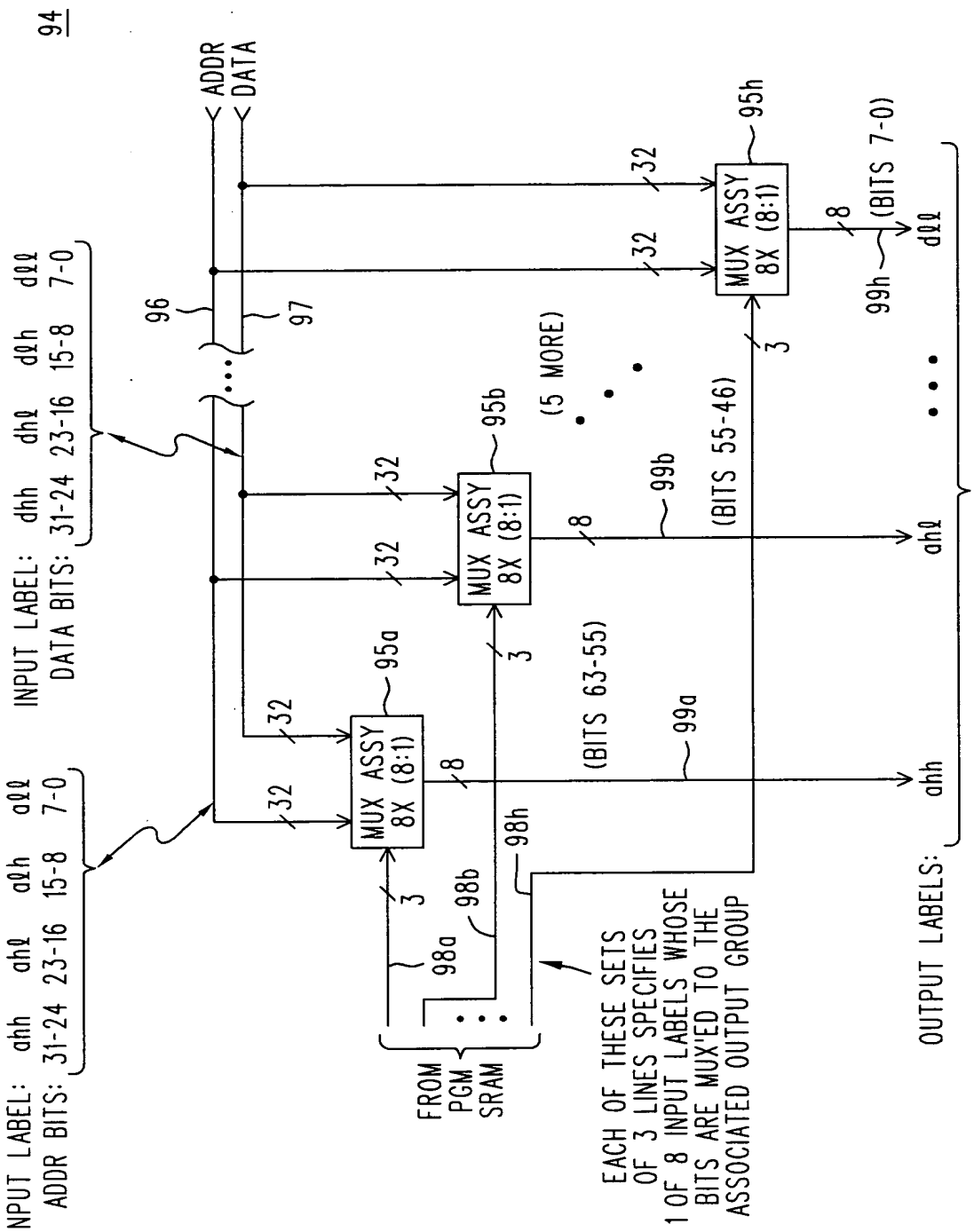

FIG. 7
(PRIOR ART)